

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/112724 A3**

(51) International Patent Classification<sup>7</sup>: **A61F 13/00**

(21) International Application Number:  
PCT/US2004/019820

(22) International Filing Date: 21 June 2004 (21.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/480,500 20 June 2003 (20.06.2003) US  
60/480,393 20 June 2003 (20.06.2003) US

(71) Applicant (for all designated States except US): **VIRAL GENOMIX, INC.** [US/US]; 3701 Market Street, 4th Floor, Philadelphia, PA 19104 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KIM, Jong, Joseph** [US/US]; 157 Orchard Drive, North Wales, PA 19454 (US).

(74) Agent: **DELUCA, Mark**; Cozen O'Connor, 1900 Market Street, Philadelphia, PA 19103 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
28 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS FOR AND METHODS FOR TREATING HIV

(57) Abstract: Pharmaceutical composition comprising compounds and/or compositions useful to inhibit HIV replication are disclosed. Methods of treating individuals infected with HIV are disclosed. Methods of preventing HIV infection in high risk individuals are disclosed.

WO 2004/112724 A3

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19820

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : A61F 13/00 US CL : 424/449, 448 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 424/449, 448 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,763,190 A (WEINER et al.) 09 June 1998; col.22, lines 1-10; col.26, lines 57-67.	1-27
Y	US 2203/0092145 A1 (JIRA et al.) abstract; page 3, paragraphs 0021, 0022, 0027; page 4, paragraphs: 0028, 0029; page 8, paragraph 0060; page 13, paragraph 0105; pagw 15, paragraph 0116.	1-27
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search 19 May 2005 (19.05.2005)		Date of mailing of the international search report <b>21 JUN 2005</b>
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer Isis Ghali <i>[Signature]</i> Telephone No. (571) 272-1600

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US04/19820

Continuation of B. FIELDS SEARCHED Item 3:

West: all data bases.

Search terms: HIV, progesterone, mifepristone, antiviral, transdermal.